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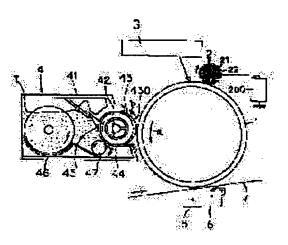
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## (54) IMAGE FORMING DEVICE

## (57) Abstract:

PURPOSE: To provide an image forming device which can sufficiently suppress generation of memory by sufficiently scattering the developer remaining after transfer by means of a charging rotary brush.

CONSTITUTION: The charging rotary brush 21 is formed by winding a cloth made by setting conductive brush fibers on a foundation cloth around the periphery of a shaft 22 and its dimensions, b, c, w,  $\theta$  and M are set so that the numbers m/mm2 of brush fibers of the rotary brush 21 which are brought into contact with the unit area of the surface of the light—sensitive drum while the surface passes the contact nip section between the rotary brush 21 are the light—sensitive drum 1 satisfies an



inequality: 350 < m < 4000 where  $m = c/b \times w \times \| \theta - 1 \| \times M$ , b is the outer diameter (mm) of the rotary brush, c is the outer diameter (mm) of the shaft including the thickness of the foundation cloth; w is the contact nip width (mm) between the light-sensitive material and the rotary brush in the moving direction of the surface of the light-sensitive material;  $\theta$  is the peripheral speed ratio of the rotary brush to the light-sensitive material; M is the average numbers of set fibers per mm2.

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